

Serial No. 10/593,618

Docket No. K-0864

Amendment dated June 30, 2011

Reply to Office Action dated April 5, 2011

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A home appliance configured to perform communication over a power cable, comprising:
 - a body that defines an exterior of the home appliance;
 - a main controller provided at the body, wherein the main controller controls operation of the home appliance and generates data corresponding to an operation mode of the home appliance; ~~and~~
 - a power cable communication modem provided at the body, wherein the power cable communication modem transmits the data from the main controller to a remote monitor that displays the data remotely;
 - a line connector having the signal lines of the main controller and the power line of the home appliance both connected thereto; and
 - a line connection connector provided at the power cable communication modem,
wherein the line connection connector and the line connector are detachably connected so as to
connect the power cable communication modem to the signal lines of the main controller and
the power line of the home appliance.

2. (Previously Presented) The home appliance as claimed in claim 1, wherein the power cable communication modem is connected to signal lines of the main controller and to a power line of the home appliance so as to transmit data to and receive data from the remote monitor.

3. (Cancelled)

4. (Currently Amended) The home appliance as claimed in claim ~~3~~1, wherein one of the line connector or the line connection connector is formed as a ~~female~~-male terminal and the other of the line connector or the line connection connector is formed as a ~~male~~-female terminal so as to receive the ~~female~~-male terminal therein and detachably connect the line connector and the line connection connector.

5. (Currently Amended) The home appliance as claimed in claim ~~3~~1, further comprising a connector cover that is detachably connectable to the line connector so as to prevent foreign materials from infiltrating into the line connector when the power cable communication modem is not mounted to the line connector.

6. (Previously Presented) The home appliance as claimed in claim 5, wherein the connector cover includes:

a plug portion that is received in the line connector; and

a cover portion formed at a rear of the plug portion for enclosing a circumference of the line connector.

7. (Previously Presented) The home appliance as claimed in claim 6, wherein the plug portion includes:

a hook that detachably engages a hook slot formed inside of the line connector; and

an end that extends from the hook and through a pass through hole formed in the cover portion so as to be exposed to an outside of the cover portion.

8-10. (Cancelled)

11. (Previously Presented) The home appliance as claimed in claim 1, wherein the power cable communication modem is a built-in type modem provided at an inside of the body.

12-13. (Cancelled)

14. (Previously Presented) The home appliance as claimed in claim 1, wherein the power cable communication modem is an exterior mounting type modem that is exposed at an outside of the body.

15. (Previously Presented) The home appliance as claimed in claim 14, wherein the power cable communication modem is fixed to an outside surface of the body with fastening members.
16. (Previously Presented) The home appliance as claimed in claim 14, wherein one of the power cable communication modem or the body includes a positioning boss, and the other of the power cable communication modem or the body includes a positioning hole corresponding to the positioning boss for receiving the positioning boss therein.
17. (Previously Presented) The home appliance as claimed in claim 1, further comprising a noise filter in the body that prevents noise from a power source from being transmitted to the main controller and the power cable communication modem.
18. (Previously Presented) The home appliance as claimed in claim 17, wherein the noise filter has an input terminal connected to an external power line that provides power to the home appliance, and an output terminal connected to the main controller and the power cable communication modem.

19-22. (Cancelled)